

## CLAIMS

1. A radio receiver apparatus comprising:
  - an averaging section that averages received known symbols per path across a plurality of slots;
  - 5 a desired signal power calculation section that calculates desired signal power per path using averaged known symbol;
  - a subtraction section that calculates a deviation of said received known symbol from said averaged known symbol per path;
  - 10 a weighting control section that performs weight control on said deviation per path;
  - an interference signal power calculation section that calculates interference signal power by adding a vector using the weight-controlled deviation; and
  - 15 a desired signal power to interference signal power ratio calculation section that calculates a ratio of desired signal power to interference signal power using desired signal power and interference signal power.
- 20 2. The radio receiver apparatus according to claim 1, wherein said weighting control section uses the desired signal power per path as a weight factor.
3. A radio base station apparatus equipped with a radio receiver apparatus, said radio receiver apparatus
  - 25 comprising:
    - an averaging section that averages received known symbols per path across a plurality of slots;

a desired signal power calculation section that calculates desired signal power per path using averaged known symbol;

5 a subtraction section that calculates a deviation of said received known symbol from said averaged known symbol per path;

a weighting control section that performs weight control on said deviation per path;

10 an interference signal power calculation section that calculates interference signal power by adding a vector using the weight-controlled deviation; and

a desired signal power to interference signal power ratio calculation section that calculates a ratio of desired signal power to interference signal power using  
15 desired signal power and interference signal power.

4. A communication terminal apparatus equipped with a radio receiver apparatus, said radio receiver apparatus comprising:

20 an averaging section that averages received known symbols per path across a plurality of slots;

a desired signal power calculation section that calculates desired signal power per path using averaged known symbol;

25 a subtraction section that calculates a deviation of said received known symbol from said averaged known symbol per path;

a weighting control section that performs weight

control on said deviation per path;

an interference signal power calculation section that calculates interference signal power by adding a vector using the weight-controlled deviation; and

5 a desired signal power to interference signal power ratio calculation section that calculates a ratio of desired signal power to interference signal power using desired signal power and interference signal power.

5. An SIR calculation method comprising the steps of:

10 averaging received known symbols per path across a plurality of slots;

calculating desired signal power per path using averaged known symbol;

15 calculating a deviation of said received known symbol from said averaged known symbol per path;

performing weight control on said deviation per path; and

calculating interference signal power by adding a vector using the weight-controlled deviation; and

20 6. The SIR calculation method according to claim 5, wherein said step of weight control uses the desired signal per path as a weight factor.